

Application No.: 09/355601

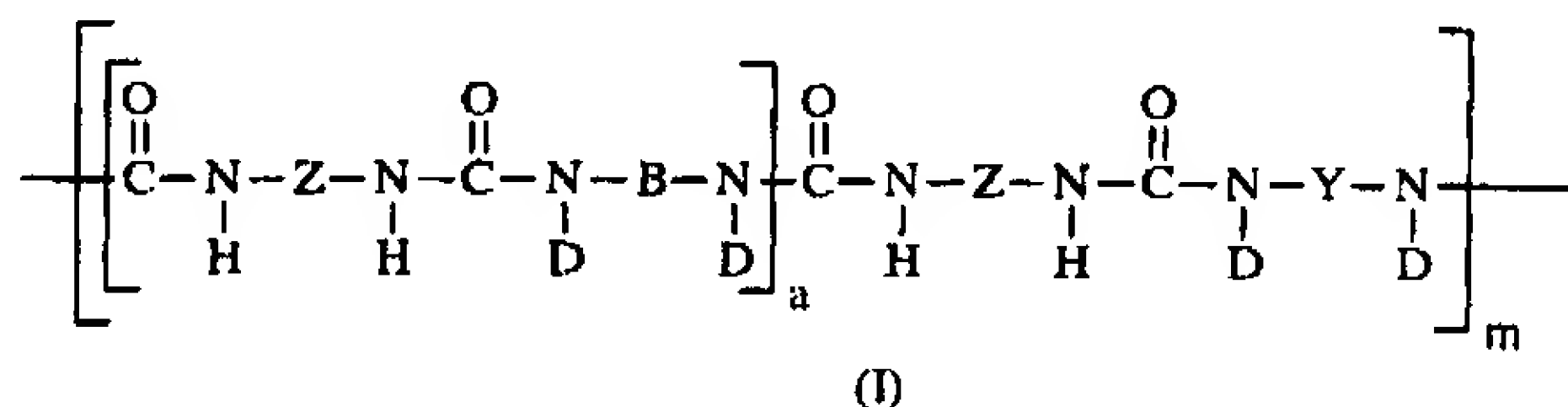
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Amendments to the Claims:

The following Listing of Claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (previously amended): An adhesive composition comprising
a silicone free polyurea-based polymer, comprising a segmented copolymer, wherein the copolymer comprises repeating units of Formula I:



wherein:

each B is independently a polyvalent radical selected from a group consisting of arylene, aralkylene, cycloalkylene, polyoxyalkylene, or mixtures thereof;

each D is independently selected from the group consisting of hydrogen, an alkyl group, a cycloalkyl group, a phenyl group, a group that completes a ring structure that includes B to form a heterocycle, and mixtures thereof;

each Z is independently a polyvalent radical having about 1 to about 20 carbon atoms;

each Y is independently a polyoxyalkylene;

m is an integer greater than zero; and

a is zero or an integer greater than zero; and

wherein the composition comprises a tackifier in an amount sufficient to provide the adhesive composition as a pressure sensitive adhesive and in an amount less than about 45 parts by weight tackifier per hundred part by weight polyurea-based polymer.

2 – 5. (cancelled)

6. (previously amended): The composition of claim 1, wherein B is a polyoxyalkylene.

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7. (previously amended): The composition of claim 1, wherein Y is selected from the group consisting of polyethylene oxide, polypropylene oxide, and polytetramethylene oxide.
8. (previously amended): The composition of claim 1, wherein a is an integer greater than zero.
9. (original): The composition of claim 1, wherein the composition exhibits a peel adhesion of greater than about 20.0 N/dm when tested according to ASTM D 3330-90, wherein ASTM D 3330-90 is modified by substituting a glass substrate for a stainless steel substrate.
10. (original): The composition of claim 1, wherein the composition exhibits a shear strength of greater than about one minute when tested according to ASTM D 3654-88.
11. (original): The composition of claim 1, wherein the composition exhibits a shear strength of greater than about 10 minutes when tested according to ASTM D 3654-88.
12. (original): The composition of claim 1, wherein the composition exhibits a shear strength of greater than about 100 minutes when tested according to ASTM D 3654-88.
13. (original): The composition of claim 1, wherein the polyurea-based polymer comprises a segmented copolymer, wherein at least about 0.5 mole fraction of linkages between segments in a backbone of the polymer are urea linkages.
14. (original): The composition of claim 1, wherein the polyurea-based polymer comprises a segmented copolymer, wherein at least about 0.75 mole fraction of linkages between segments in a backbone of the polymer are urea linkages.
15. (original): The composition of claim 1, wherein the polyurea-based polymer comprises a segmented copolymer, wherein at least about 0.95 mole fraction of linkages between segments in a backbone of the polymer are urea linkages.

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16 – 17. (cancelled)

18. (original): The composition of claim 1, wherein the composition further comprises an acid-containing polymeric material.

19. (cancelled)

20. (cancelled)

21 – 25. (cancelled)

26. (original): An adhesive tape comprising:

a backing; and

the adhesive composition of claim 1 coated on at least a portion thereof.

27. (original): The adhesive tape of claim 26, wherein the backing comprises a polyurea.

28. (original): The adhesive tape of claim 26, further comprising a release material coated on at least a portion of the backing, on a side of the backing opposite of the adhesive.

29 – 30. (cancelled)

31. (original): A method of preparing the adhesive composition of claim 1, the method comprising the steps of:

providing at least one polyisocyanate;

providing at least one polyamine;

reacting the at least one polyisocyanate with the at least polyamine to form the polyurea-based polymer; and

optionally adding the tackifier to the polyurea-based polymer.

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32. (original): The method of claim 31, wherein at least one polyisocyanate and the at least one polyamine are reacted by reactive extrusion.

33. (original): The method of claim 31, further comprising the step of hot-melt coating the adhesive composition onto a substrate.

34. (original): The method of claim 31, further comprising the step of solvent coating the adhesive composition onto a substrate.

35. (original): The method of claim 31, wherein the polyurea-based polymer is polymerized on-web.

36 – 37. (cancelled)

38. (previously presented): The adhesive composition of claim 1, wherein the polyurea-based polymer exhibits a peel adhesion of greater than about 10.0 N/dm when tested according to ASTM D 3330-90, wherein ASTM D 3330-90 is modified by substituting a glass substrate for a stainless steel substrate.